

Work Order ID 98826

March-26-13 9:03:31 AM

ASAP

98826

PRELIMINARY ISSUE

Page 1

Item ID: D4792-6

Accept

N900040100

Setup Start *NS1*

Revision ID: PRELIM

Stop *NS2*

Item Name: Angle

Start Date: 3/26/13 Start Qty: 2.00

2

Cust Item ID:

Required Date: 4/09/13 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals:

Process Plan: MLJ

Date: 13-03-26

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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D4792	pa2 3 AA
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100		0.00
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100

Waterjet

Memo

0.00

2

0

Jm13-3-26

FLOW CNC Waterjet

1-Cut D4792-5f as per Dwg

Dwg Rev: PA3

Prog Rev: PA3

60061-050

2-Deburr if necessary

110	QC2- Inspect parts off machine FAI/FAIB	0.00
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110

QC

Memo

0.00

2

0

Jm13-3-26

Quality Control

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

Work Order ID 98826

March-26-13 9:03:31 AM

98826

Page 2

Item ID: D4792-6

Accept

N900040100

Setup Start ***NS1***

Revision ID: PRELIM

Stop ***NS2***

Item Name: Angle

Start Date: 3/26/13 Start Qty: 2.00

2

Cust Item ID:

Required Date: 4/09/13 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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120 QC8- Inspect parts - second check

0.00

120

QC

Memo

0.00

Quality Control

Handwritten: 13.3 27

Handwritten: 2

130

Bend as per dwg

0.00

130

Brake NC

Memo

0.00

Brake NC

Handwritten: 2

Handwritten: 8/13/03/27

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Memo

0.00

Quality Control

Handwritten: 13.3 27

Handwritten: 2

Handwritten: Inspected on per DWG PAB

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

Work Order ID 98826

March-26-13 9:03:31 AM

98826

Page 3

Item ID: D4792-6

Accept

N900040100

Setup Start

NS1

Revision ID: PRELIM

Stop

NS2

Item Name: Angle

Start Date: 3/26/13

Start Qty: 2.00

2

Cust Item ID:

Required Date: 4/09/13

Req'd Qty: 2.00

2

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

150

Identify as per dwg & Stock Location: _____

0.00

150

Packaging

Memo

0.00

Packaging

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Memo

0.00

Quality Control

MF
13-4-2

POSITIVE RECALL

EFFECTIVE _____ AUTH _____

RECEIVED _____ DATE _____

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
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Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabelled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
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		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
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		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

Picklist Print

March-26-13 9:03:34 AM

Page 1

Work Order ID: 98826

98826

Parent Item: D4792-6

D4792-6

Parent Item Name: Angle

Start Date: 3/26/13

Required Date: 4/09/13

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 13.03.22 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M6061T6S.050

Purchased

No

100

sf

443.2620

0.027

~~0.056~~842

M6061T6S 050

**

0.1

Jm 3-3-26

6061-T6 .050 Sheet

Location

Loc Qty

Loc Code

MAT021

443.262

114799

56.682

114993

27

121192

107

123293

252.58

123293

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

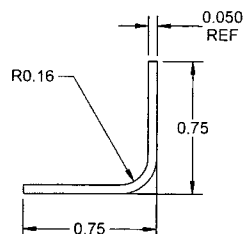
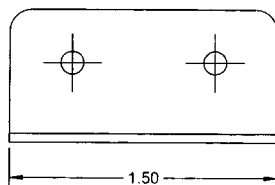
QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

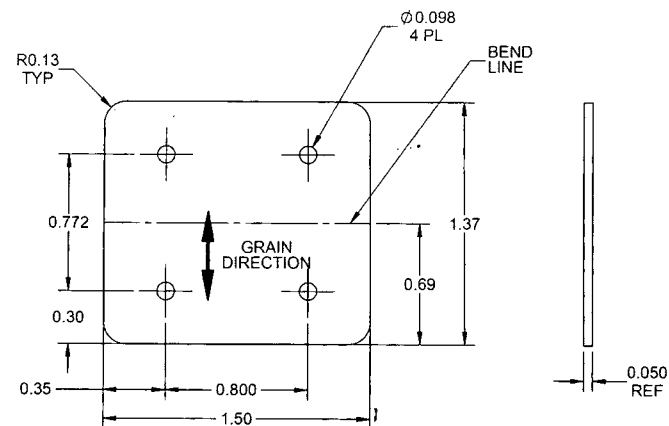
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
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<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabelled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
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<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other



D4792-1 ANGLE
MAKE FROM D4792-1F FLAT PATTERN



D4792-1 ANGLE FLAT PATTERN ANGLE

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.050 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M2024T3S.050 OR M6061T6S.050
OR
2024-T3 ALUMINUM SHEET, 0.050 THICK
QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209
REF DART SPEC M6061T6S.050 OR M2024T3S.050
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs

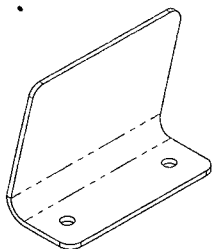
PRELIMINARY ISSUE

13.03.02

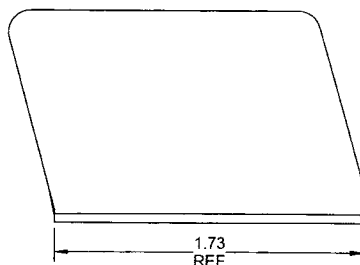
PA3	NEW ISSUE	DESCRIPTION		SC	13.03.02
REV.				BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWN	RF				
CHECKED	DL	DRAWING NO.	REV. PA3		
MFG. APPR.		D4792	SHEET 1 OF 4		
APPROVED		TITLE	SCALE		
DE APPR.		ANGLE	NTS		
DATE	13.03.02	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

98826 MJS
13-03-26

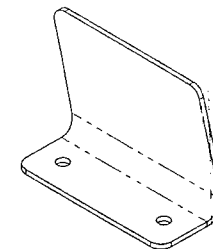
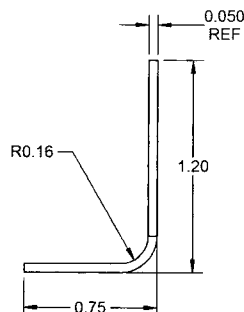
98826



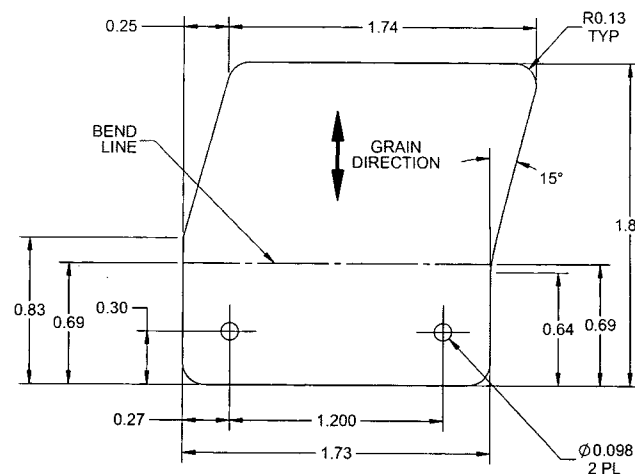
D4792-4 ANGLE
ISO VIEW
MAKE FROM D4792-3F



D4792-3 ANGLE
D4792-4 OPPOSITE
MAKE FROM D4792-3F FLAT PATTERN



D4792-3 ANGLE
ISO VIEW
MAKE FROM D4792-3F



D4792-3 FLAT PATTERN ANGLE

PRELIMINARY ISSUE

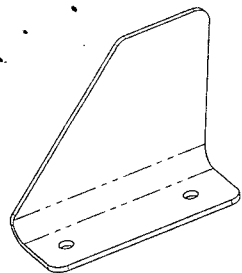
13.03.02

NOTES:

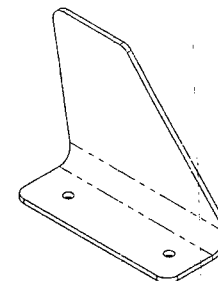
- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.050 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M2024T3S.050 OR M6061T6S.050
OR
2024-T3 ALUMINUM SHEET, 0.050 THICK
QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209
REF DART SPEC M6061T6S.050 OR M2024T3S.050
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.03 lbs

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	JC	DRAWING NO.	REV. PA3
MFG. APPR.		D4792	SHEET 2 OF 4
APPROVED		TITLE	SCALE
DE APPR.		ANGLE	NTS
DATE	13.03.02	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

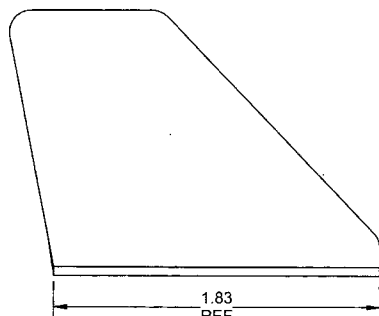
98826



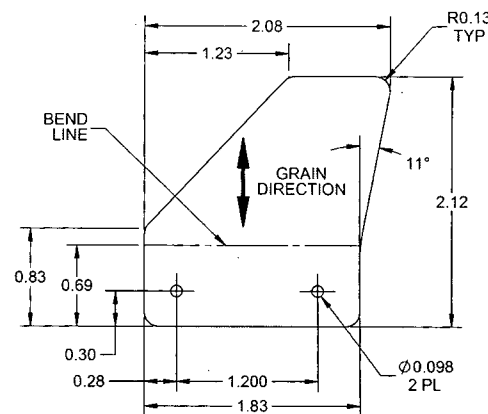
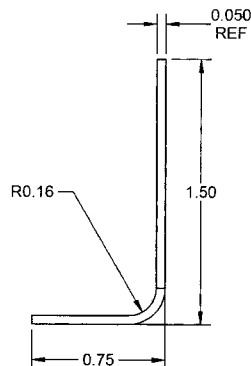
D4792-6 ANGLE
ISO VIEW
MAKE FROM D4792-5F



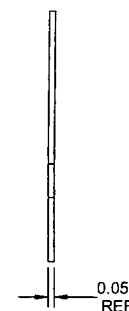
D4792-5 ANGLE
ISO VIEW
MAKE FROM D4792-5F



D4792-5 ANGLE
D4792-6 OPPOSITE
MAKE FROM D4792-5F FLAT PATTERN



D4792-5F FLAT PATTERN ANGLE



NOTES:

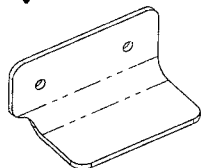
- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.050 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M2024T3S.050 OR M6061T6S.050
OR
2024-T3 ALUMINUM SHEET, 0.050 THICK
QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209
REF DART SPEC M6061T6S.050 OR M2024T3S.050
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

PRELIMINARY ISSUE

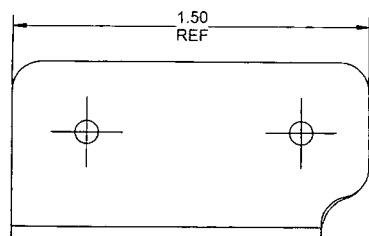
13.03.02

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	BC	DRAWING NO. D4792	REV. PA3
MFG. APPR.		TITLE ANGLE	SHEET 3 OF 4
APPROVED		SCALE	NTS
DE APPR.		<small>COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	
DATE	13.03.02		

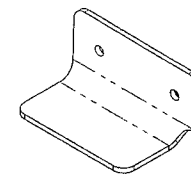
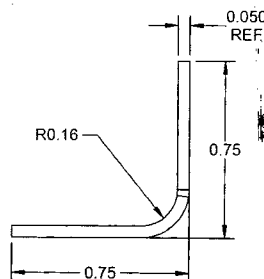
98826



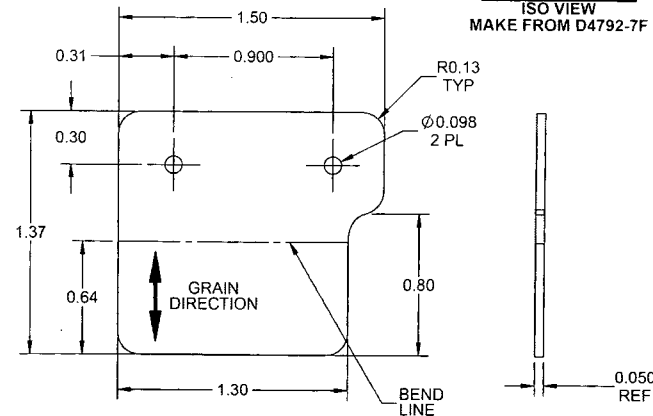
D4792-8 ANGLE
ISO VIEW
MAKE FROM D4792-7F



D4792-7 ANGLE
D4792-8 OPPOSITE
MAKE FROM D4792-7F FLAT PATTERN



D4792-7 ANGLE
ISO VIEW
MAKE FROM D4792-7F



D4792-7F FLAT PATTERN ANGLE

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.050 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M2024T3S.050 OR M6061T6S.050
OR
2024-T3 ALUMINUM SHEET, 0.050 THICK
QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209
REF DART SPEC M6061T6S.050 OR M2024T3S.050
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

PRELIMINARY ISSUE

~~13~~ 13.03.02

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO. D4792	REV. PA3
MFG. APPR.		TITLE ANGLE	SHEET 4 OF 4
APPROVED		SCALE	NTS
DE APPR.		<small>COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	
DATE	13.03.02		

DART AEROSPACE LTD		Work Order:	98826
Description: Angle		Part Number:	D4792.6
Inspection Dwg: D4792 Rev: PA3			Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

[illegible]

Measured by: <u>27</u>	Audited by:	Preliminary Approval:
Date: <u>13-3-20</u>	Date:	Date:

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

Receiving Report

Date: 12/10/11
 Supplier: CAMP

Batch No: M123 293
 Dart P/O: 18068

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: DA Yes ☒ No ☐ N/A ☐
 QC6 Inspection 14 12/16/11 N/A ☒
 Work Order 2-89 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 12/10/11
 Date [Signature]
 Received/Costing [Signature]
 Initial [Signature]

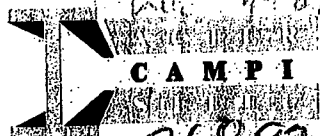
Location

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID: PO18065 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

[illegible]



935, boul. du Havre
Valleyfield (Québec)
J6S 5L1

TÉLÉPHONE : 450 377-448
FAX : 450 377-5696

MONTREAL : 514 336-4248
FAX : 514 336-4246

DISTRIBUTEUR D'ACIER ET MÉTAL
STEEL AND SPECIALTY METALS DISTRIBUTOR

ONTARIO : 1 800 667-4248
FAX : 1 866 456-4242

On a du Soudier "7ER"

VENDU À / SOLD TO:

613-632-5200 613-632-1053

EXPÉDIEZ À / SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY,
ONTARIO
K6A 1K7

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY,
ONTARIO
K6A 1K7

COMMANDE
ORDER N° 205937

DATE 03/10/12

BONDE LIVRAISON
PACKING SLIP N°

DATE DE LIVRAISON
DELIVERY DATE 11/10/12

VOTRE N° DE COMMANDE / YOUR PO. N°	VENDEUR / SALESMAN	CODE CLIENT / CUST. CODE	EXPÉDIE PAR / SHIP VIA	TERMES / TERMS	TERR.	REMARQUES / REMARKS	PAGE N°
F018065	V	DAER		NET 30 JOURS	2R		001

CODE DE PRODUIT PRODUCT CODE	COMMANDE ORDERED	EXPÉDIE SHIPPED	DESCRIPTION	POIDS WEIGHT	PRX PRICE	PAR PER *	MONTANT AMOUNT
			ENTRÉE TEST REQUIS**				
MD 1218F	4	4x14x12	EXPANDED METAL 1/2 X 18F 4 X 4" X 8"	84.00			
	192	414x12	HEAT: 781264 ALU PLATE 6061-T6 .032" (20G) 4 X 4" X 12"	192.00			
PAI 4121606061	6	614x12	6061T6 AL. SH. .051 (16G) 48X144 6 X 4" X 12" HEAT: 391156	207.00			

* Unités de mesure : CLB Cent livres / CPI Cent pieds / UN Unit / PI Pied / PC Pied carré / Square foot

POIDS TOTAL
TOTAL WEIGHT 483

CONDITIONS

LES MATÉRIAUX LIVRÉS ET FACTURES TELS QUE DÉCRITS DEVIENNENT LA PROPRIÉTÉ DE CAMP I INC. JUSQU'À PAYSÉMENT COMPLET. ENVOI SANS GARANTIE. LES RISQUES DE PERTES DU BIEN SONT À LA CHARGE DE L'ACHETEUR. LA GARANTIE DE QUALITÉ DU MATÉRIEL EST LA MÊME QUE CELLE DU FABRICANT. L'ACHETEUR S'ENGAGE À RESPECTER LES CONDITIONS SUIVANTES (NET 30 JOURS DE LA DATE DE FACTURATION) ET TOUT DÉLAI DE PAYSÉMENT EN DEHORS DE CE DÉLAI ENTRAÎNE DES FRAIS DE 2% PAR MOIS (24% PAR ANNEE) D'UN PAYSÉMENT DÉLAISSÉ. TOUT DÉLAI D'EXÉCUTION DE L'UNE OU L'AUTRE DES OBLIGATIONS EN VERTU DU PRÉSENT CONTRAT ENTRAÎNE LA DÉCHÉANCE DU TERME ET PERMET AU VENDEUR, À SON CHOIX, DE RÉVOQUER TOUT SUIVI DE LA PRÉSENCE DU BIEN VENDU. TOUTE RÉCLAMATION DOIT ÊTRE FAITE DANS LES CINQ JOURS DE LA PRÉSENTATION DU DOCUMENT. TOUTE MARCHANDISE EN DOMMAGE, ALTÉRÉE OU COUPÉE NE PEUT ÊTRE RETOURNÉE. TOUTE MARCHANDISE RETOURNÉE EST SOUS MISE À LA DISPOSITION DU VENDEUR SANS NOTRE AUTORISATION. TOUTE MARCHANDISE RETOURNÉE EST SOUS MISE À LA DISPOSITION DU VENDEUR SANS NOTRE AUTORISATION.

CONDITIONS

ALL SOLD AND DELIVERED MATERIALS REMAIN THE PROPERTY OF CAMP I INC. UNTIL PAYMENT IS MADE IN FULL. COMPLETE AND CASHED. ALL TEST MATERIALS ARE AT THE BUYER'S RISK. THE BUYER'S WARRANTY IS THE SAME AS GIVEN BY THE MANUFACTURER. THE BUYER AGREES TO RESPECT THE FOLLOWING CONDITIONS (NET 30 DAYS FROM BILLING DATE) AND THE BUYER ACCEPTS TO PAY ADMINISTRATION CHARGES OF 2% PER MONTH (24% PER ANNUAL) OF A DELAYED PAYMENT. ANY DELAY IN EXECUTION OF ONE OR THE OTHER OF THE OBLIGATIONS IN VERTU OF THE PRESENT CONTRACT RESULTS IN THE CANCELLATION OF THE TERM AND PERMITS THE SELLER, AT HIS CHOICE, TO REVOKE THE CONTRACT. ANY COMPLAINT MUST BE MADE WITHIN FIVE DAYS OF THE PRESENTATION OF THE DOCUMENT. ANY DAMAGED, ALTERED OR CUT MATERIAL CANNOT BE RETURNED. ANY RETURNED MATERIAL IS AT THE SELLER'S DISPOSITION WITHOUT OUR AUTHORIZATION AND ARE SUBJECT TO OUR RESTORATION.

MARCHANDISE REÇUE EN BONNE CONDITION / MERCHANDISE RECEIVED IN GOOD CONDITION

SOUS-TOTAL
SUB TOTAL

T.P.S.
G.S.T.

T.V.Q. / T.V.H.
Q.S.T. / H.S.T.

TOTAL

PRÉPARE / PREPARED	VÉRIFIÉ / VERIFIED	LIVRÉ / DELIVERED	HEURE / TIME
PAR 3	PAR FM/00	PAR 1/0	

SIGNATURE DU CLIENT / CUSTOMER'S SIGNATURE



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18065

Purchase Order Date 10/03/12

PO Print Date 10/03/12

Page Number 1 of 2

Order From :

CAMPI STEEL
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Contact Name

Vendor Phone

800-667 4248

Vendor Fax

450 377 5696

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

12329.3

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M569EX0.50-18F 018 y	569 Expanded Metal	10/09/12 Yes	128.00 sf	Yours ppd	\$1.0625	\$136.00
		Special Inst: MATERIAL: CARBON STEEL EXPANDED METAL MESH AS PER ASTM F1267 OR MIL-M-17194D					
2	M6061T6S.032 021 y	6061-T6 Sheet 0.032"	10/09/12 Yes	192.00 sf	Yours ppd	\$1.8500	\$355.20
		Special Inst: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 40327 OR ASTM B209					
3	M6061T6S.050 021 y	6061-T6 .050 Sheet	10/09/12 Yes	288.00 sf	Yours ppd	\$3.0184	\$869.30

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 1

Change Date: 10/03/12

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that sample representatives of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Per:

Malcolm Murphy

Director of Manufacturing Davenport Works

Terrence Thom

Quality Assurance Manager

1345958

0

Ship Date

B.L. No.

Invoice No.

Alcoa No. Item

2012-02-21

6796434

00000

1000345769-1

DPE-45769-1

P.O. No./Govt Contract No.

Customer

Alcoa Item

C64614 Ln#: 1

Page 2 of 2

CQR: 0217944.5 -Specification Limits (cont.)

Chemical Composition	Max	Min	Other								Other	Total Aluminum
			SI	FE	CU	MN	MG	CR	ZN	TI		
Alloy 6061	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15		
Lot: 191156			0.40	0.15	0.8	0.04					REMAIN	

Lot: 191156 - Mechanical, Physical, Metallography, Quantometer Results

Temp	Dir	Test	No->		
			UTS	TYS	ELAD
T6	Long Transv.	7	KSI	KSI	PCT
		50.2	43.8	10.9	
		50.3	43.9	11	
		50.2	44	10.6	
		50.2	43.8	11	
		50.4	43.8	11.3	
50.2	43.6	11.4			
49.9	43.4	10.9			

Cast Number	Chemical - OBS	SI	FE	CU	MN	MG	CR	ZN	TI
12800482	Actuals	0.66	0.5	0.25	0.13	1.0	0.16	0.01	0.06

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)], it was manufactured in the United States

